## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Currently Amended) An apparatus for synchronization acquisition in a User Equipment (UE) communicating with any one of a first Node B in a first system mode operating in a synchronous scheme and a second Node B in a second system mode operating in an asynchronous scheme in a mobile communication system, comprising:

a controller for determining a system mode of a current Node B to which the UE belongs between the first system mode of the first Node B and the second system mode of the second Node B, and generating a system mode select signal in order to select the determined system mode; and

a code generator for generating a synchronization code used in—the first system mode or the second\_the determined system mode in response to the system mode select signal.

- 2. (Currently Amended) The apparatus of claim 1, wherein the controller determines designates a system mode of a previous Node B to which the UE belongs prior to the UE powering-off as the determined system mode of a current Node B.
- 3. (Currently Amended) The apparatus of claim 1, wherein the controller determines designates a system mode of a Node B, which was set by a service provider of the mobile communication system, as the determined system mode of a current Node B.
- 4. (Currently Amended) The apparatus of claim 1, wherein the controller determines designates a system mode having a first priority among system modes previously stored in the UE as the determined system mode of a current Node B.

5. (Currently Amended) The apparatus of claim 1, wherein the code generator comprises:

a register unit having a second number of registers necessary for generating a synchronization code used in the second system mode, the register unit operating [[so]]such that a feedback value is input to a first number of shift registers necessary for generating a synchronization code used in the first system mode or to a second number of shift registers necessary for generating a synchronization code used in the second system mode, according to a predetermined control generated by the system mode select signal corresponding to the determined system mode;

a synchronization code mask unit for masking a mask value for generating the synchronization code used in the first system mode or the synchronization code used in the second-the determined system mode, to a shift register value according to [[a]]the predetermined control; and

a feedback controller for determining a register feedback tap of the register unit for generating the synchronization code used in the first system mode or the synchronization code used in the second-the determined system mode according to [[a]]the predetermined control-generated by the system mode select signal, and inputting [[a]]the feedback value to a shift register corresponding to [[a]]the determined system mode.

6. (Currently Amended) A method for synchronization acquisition in a user equipment (UE) communicating with any one of a first Node B in a first system mode operating in a synchronous scheme and a second Node B in a second system mode operating in an asynchronous scheme in a mobile communication system, comprising the steps of:

determining a system mode of a current Node B to which the UE belongs between the first system mode of the first Node B and the second system mode of the second Node B;

generating a system mode select signal in order to select the determined system mode; and

generating a synchronization code used in the first system mode or the second system mode according to the determined system mode in response to the system mode select signal.

- 7. (Currently Amended) The method of claim 6, wherein the determining step determines designates a system mode of a Node B to which the UE belongs prior to the UE powering-off as the determined system mode of a current Node B.
- 8. (Currently Amended) The method of claim 6, wherein the determining step determines designates a system mode of a Node B, which was set by a service provider of the mobile communication system, as the determined system mode of a current Node B.
- 9. (Currently Amended) The method of claim 6, wherein the determining step determines designates a system mode having a first priority among system modes previously stored in the UE as the determined system mode of a current Node B.
- 10. (Currently Amended) The method of claim 6, wherein the synchronization code generating step comprises the steps of:

receiving a mask value and a shift register value for generating a synchronization code used in the first system mode or a synchronization code used in the second-the determined system mode according to the system mode select signal;

determining a register feedback tap for generating the synchronization code used in the first system mode or the synchronization code used in the second system mode according to the determined system mode, and inputting a feedback value to a shift register corresponding to [[a]]the determined system mode;

shifting register values so that [[a]]the feedback value is input to a first number of shift registers necessary for generating the synchronization code used in the first system mode or to a second number of shift registers necessary for generating the synchronization code used in the second system mode according to the determined system mode; and

generating a synchronization code by masking [[a]]the mask value for generating the synchronization code used in the first system mode or the synchronization code used in the second-the determined system mode, to the shift register value-according to the determined system mode.